USB 2.0 VGA ADAPTER

USER MANUAL

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INTRODUCTION

Thank you for purchasing the **USB 2.0 VGA ADAPTER**. The USB 2.0 VGA Adapter enables you to connect one or multiple display devices (CRT/LCD monitor, projector) to your desktop or notebook PC. The connected display can act as mirrored or extended desktop of the main display on your PC. The flexibility of the common USB 2.0 technology saves the need to open the computer or struggling with compatibility issues related to the VGA card.

FEATURES

- Support display resolution up to 1920 x 1200
- Support the multiple display devices on one PC
- Multi graphics display modes – Primary, Extended, Mirror and Rotation
- Plug-and-Play USB connectivity
- USB 2.0 compliant

SYSTEM REQUIREMENTS

- Pentium 4 / Celeron Family, AMD K6 / Athlon / Duron Family.
  1.0GHz or higher processor
- Single Display Setup: 256MB RAM or higher;
  Multi-Display Setup: 512MB RAM or higher
  (Higher memory recommended for optimal performance)
- Available USB 2.0 port
- Windows 2000 SP4 / Windows XP SP2 / Windows Vista

PACKAGE CONTENTS

- USB 2.0 VGA ADAPTER
- CD (User Manual, Driver and Utility)
- Quick Installation Guide

NOTE

- Do not plug the USB 2.0 VGA Adapter into your PC or Notebook before executing the set-up or un-installation program.
- AC power adapter is required for external USB Hub. Please be reminded that the driver allows up to 6 USB 2.0 VGA Adapters on one PC.
- Reboot the computer after all of USB 2.0 VGA Adapters have completely been installed.

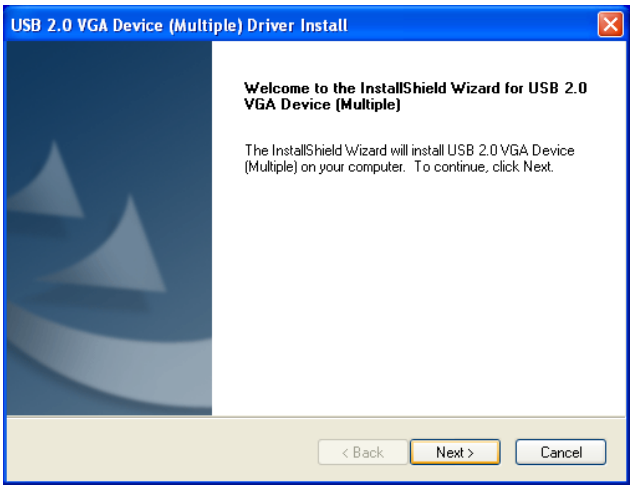
INSTALLATION ON WINDOWS 2000/XP

DEVICE DRIVER INSTALLATION

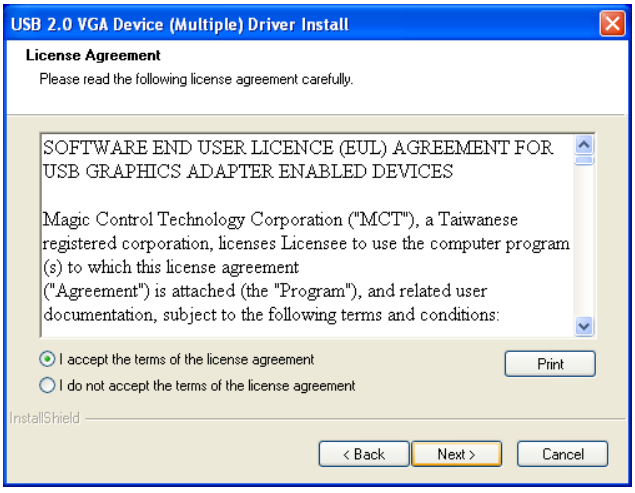
Installing the device driver enables your computer's operating system to recognize the USB 2.0 VGA Adapter once it's connected. Please check your operating system and refer to the appropriate installation procedure to begin installing the device driver. Please make sure the USB 2.0 VGA Adapter is **unplugged** from your PC or Notebook before executing the setup program. This section illustrates the simple device driver installation procedure for computer running Windows 2000 / XP operating system.

Step 1.
Insert the Driver CD into the CD-ROM drive; the setup program should be launched automatically. If setup program does not begin automatically, click Start, Run and double click "**D:\Setup.exe**" (where D: is the path of your CD-ROM drive).

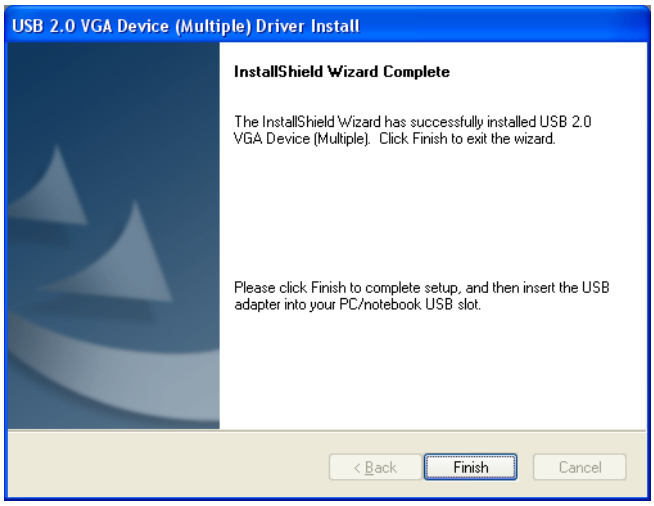
Step 2.
Driver Installation Wizard, click "**Next**" to continue.


USB 2.0 VGA Device (Multiple) Driver Install
Welcome to the InstallShield Wizard for USB 2.0 VGA Device (Multiple)
The InstallShield Wizard will install USB 2.0 VGA Device (Multiple) on your computer. To continue, click Next.
< Back
Next >
Cancel

Step 3.
License Agreement; please read it and select **"I accept the terms of the license agreement**." Click "**Next**" to accept the License Agreement.


USB 2.0 VGA Device (Multiple) Driver Install
License Agreement
Please read the following license agreement carefully.
SOFTWARE END USER LICENCE (EUL) AGREEMENT FOR USB GRAPHICS ADAPTER ENABLED DEVICES
Magic Control Technology Corporation ("MCT"), a Taiwanese registered corporation, licenses Licensee to use the computer program (s) to which this license agreement ("Agreement") is attached (the "Program"), and related user documentation, subject to the following terms and conditions:
I accept the terms of the license agreement
I do not accept the terms of the license agreement
Print
InstallShield
< Back
Next >
Cancel

Step 4.
Click "**Finish**" to exit the Driver Wizard.

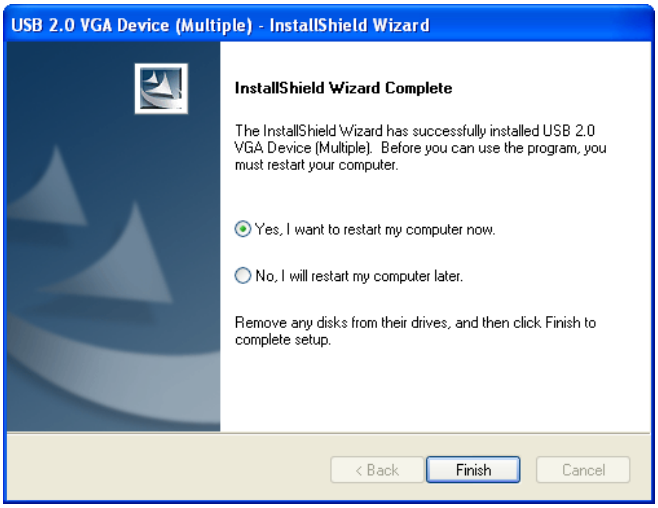

USB 2.0 VGA Device (Multiple) Driver Install
InstallShield Wizard Complete
The InstallShield Wizard has successfully installed USB 2.0 VGA Device (Multiple). Click Finish to exit the wizard.
Please click Finish to complete setup, and then insert the USB adapter into your PC/notebook USB slot.
< Back
Finish
Cancel

Step 5.
Connect the external display device (monitor/projector) to the VGA (DB15) connector of **USB 2.0 VGA Adapter** and switch it on. Then, plug the USB 2.0 VGA Adapter into an available USB 2.0 port of your PC or Notebook.

Step 6a.
INSTALLATION OF SINGLE USB 2.0 VGA ADAPTER

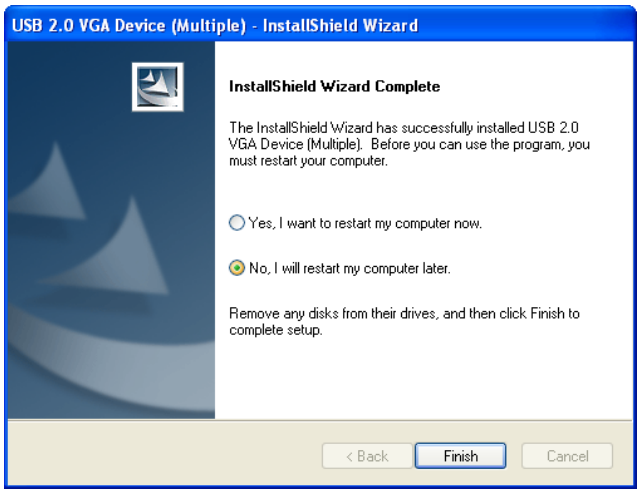
Please select "**Yes, I want to restart my computer now.**" and click "**Finish**" to complete the driver installation.

After reboot the computer, the extended display will be shown on the 2nd display device.


USB 2.0 VGA Device (Multiple) - InstallShield Wizard
InstallShield Wizard Complete
The InstallShield Wizard has successfully installed USB 2.0 VGA Device (Multiple). Before you can use the program, you must restart your computer.
Yes, I want to restart my computer now.
No, I will restart my computer later.
Remove any disks from their drives, and then click Finish to complete setup.
< Back
Finish
Cancel

Step 6b.
INSTALLATION OF MULTIPLE USB 2.0 VGA ADAPTERS

a. Please select "**No, I will restart my computer later.**" And click "**Finish**" to continue the next installation.


USB 2.0 VGA Device (Multiple) - InstallShield Wizard
InstallShield Wizard Complete
The InstallShield Wizard has successfully installed USB 2.0 VGA Device (Multiple). Before you can use the program, you must restart your computer.
Yes, I want to restart my computer now.
No, I will restart my computer later.
Remove any disks from their drives, and then click Finish to complete setup.
< Back
Finish
Cancel

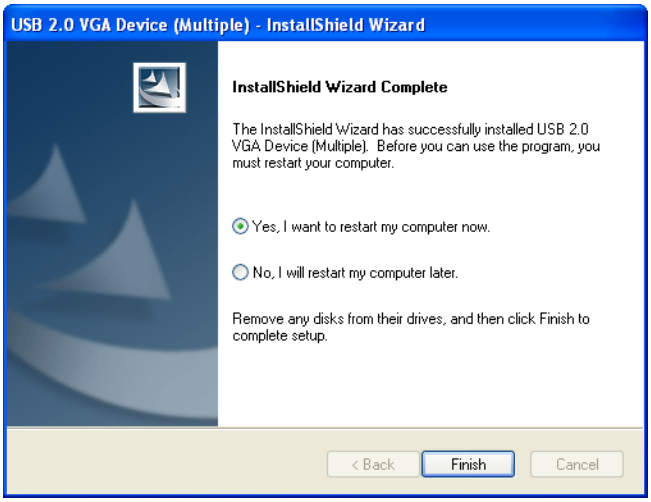
b. Connect another external display device to the VGA (DB15) connector of next USB 2.0 VGA Adapter and switch it on.

c. Plug the USB 2.0 VGA Adapter into an available USB 2.0 port of your PC. The driver installation will be proceeding automatically.

d. If you wish to install additional USB 2.0 VGA Adapter, please follow the procedure **a~ c** again.

e. Otherwise, please select "**Yes, I want to restart my computer now.**" and click "**Finish**" to complete the driver installation.

After reboot the computer, the extended display will be shown on the display device.


USB 2.0 VGA Device (Multiple) - InstallShield Wizard
InstallShield Wizard Complete
The InstallShield Wizard has successfully installed USB 2.0 VGA Device (Multiple). Before you can use the program, you must restart your computer.
Yes, I want to restart my computer now.
No, I will restart my computer later.
Remove any disks from their drives, and then click Finish to complete setup.
< Back
Finish
Cancel

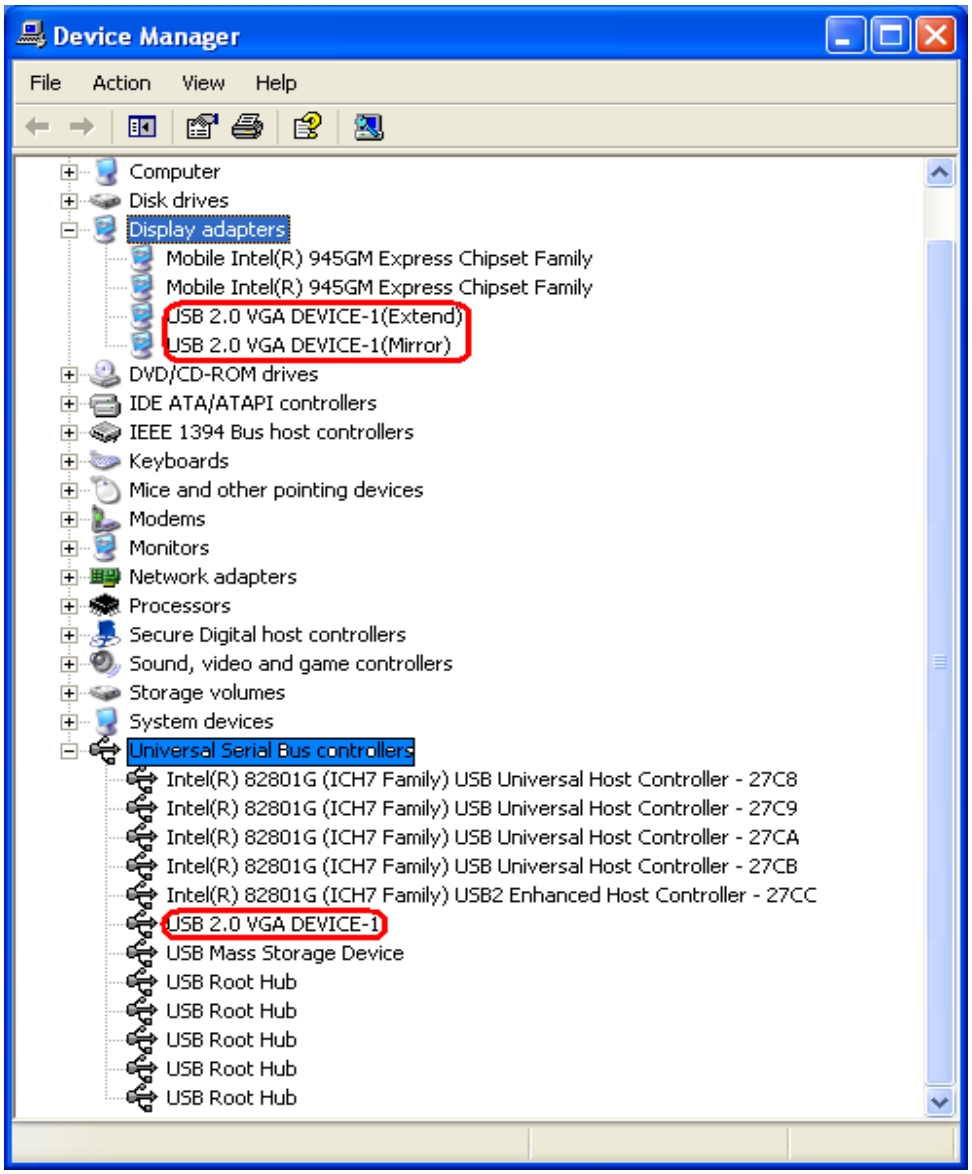
VERIFYING DEVICE DRIVER INSTALLATION

The following procedure allows you to verify the device driver installation.

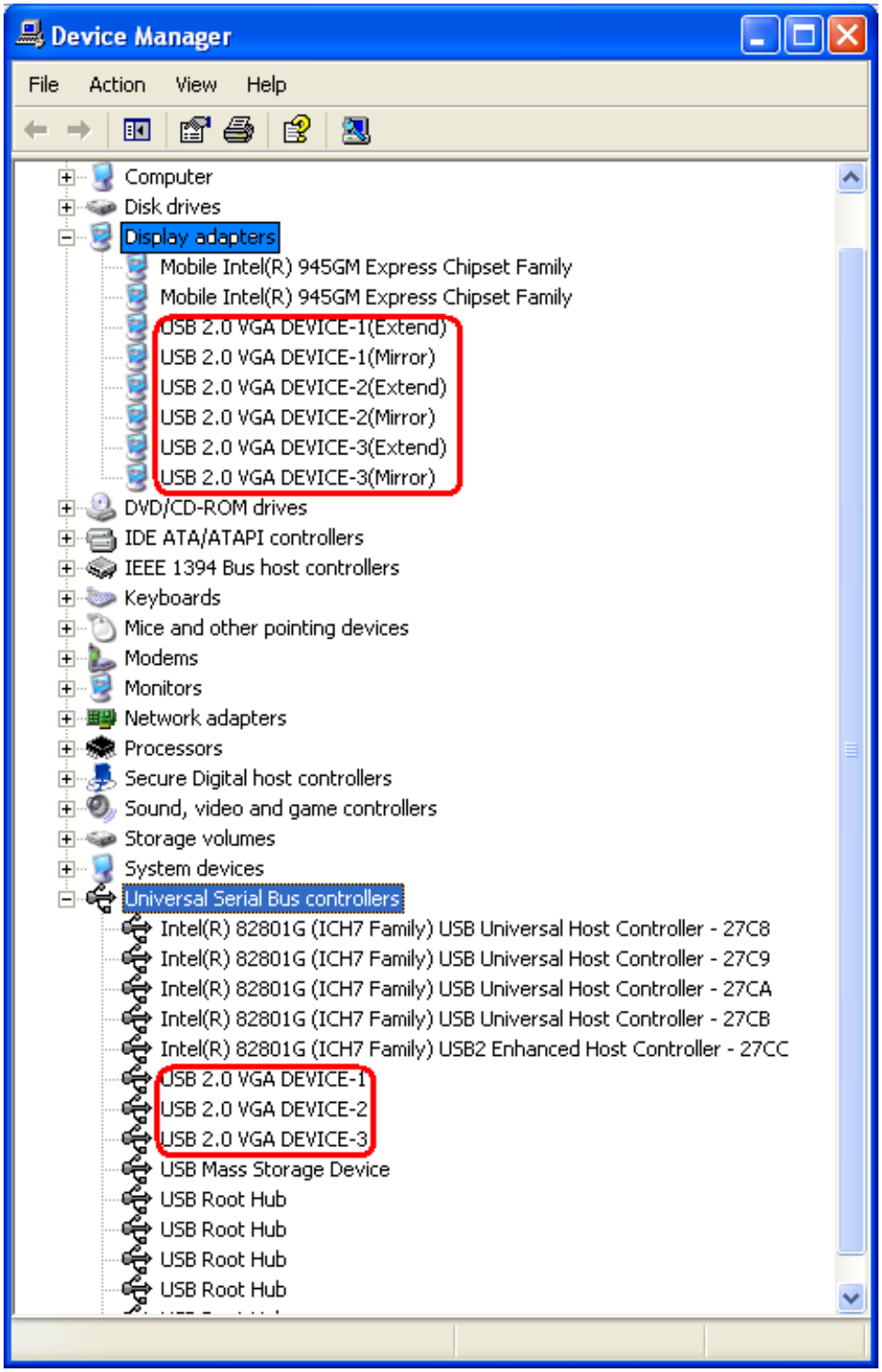
Please right click "My Computer" → "Properties" → "Hardware" → "Device Manager".

Plug-in the USB 2.0 VGA adapter, then double click "**Display adapters**", and "**Universal Serial Bus controllers**". It will show the new directions as below,

※SINGLE USB 2.0 VGA ADAPTER INSTALLATION ON THE COMPUTER:



※MULTIPLE USB 2.0 VGA ADAPTERS INSTALLATION ON THE COMPUTER:



DEVICE DRIVER UN-INSTALLATION

Step 1.

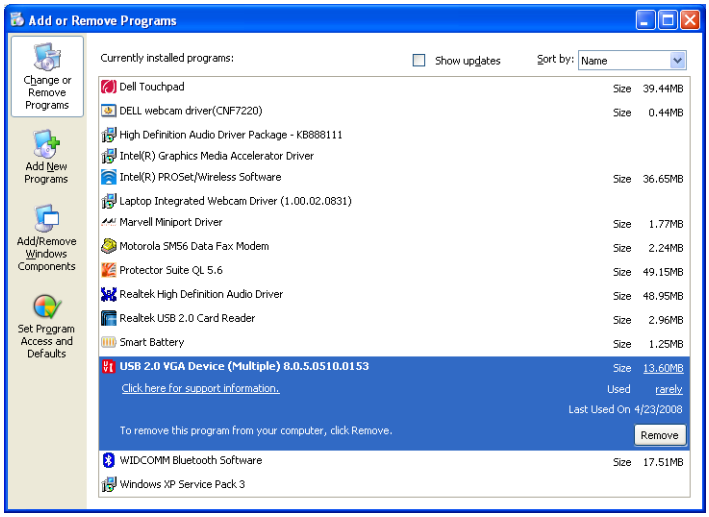
Start menu:

Click "Start" → "Control Panel" → "Add or Remove Programs".

Classic start menu:

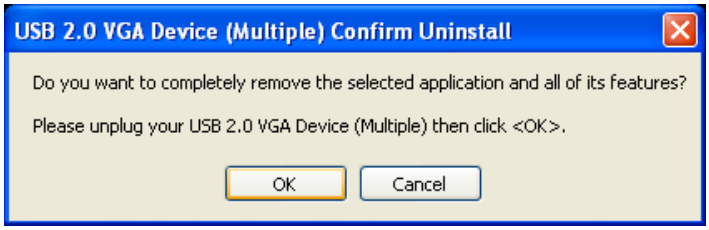
Click "**Start**" → "**Settings**" → "**Control Panel**" → "**Add or Remove Programs**".

Select "**USB 2.0 VGA Device (Multiple) driver version no.**" item. Click "**Remove**" button.


Add or Remove Programs
Change or Remove Programs
Add New Programs
Add/Remove Windows Components
Set Program Access and Defaults
Currently installed programs:
Show updates
Sort by: Name
Dell Touchpad
DELL webcam driver(CNF7220)
High Definition Audio Driver Package - KB888111
Intel(R) Graphics Media Accelerator Driver
Intel(R) PROSet/Wireless Software
Laptop Integrated Webcam Driver (1.00.02.0831)
Marvell Miniport Driver
Motorola SM56 Data Fax Modem
Protector Suite QL 5.6
Realtek High Definition Audio Driver
Realtek USB 2.0 Card Reader
Smart Battery
USB 2.0 VGA Device (Multiple) 8.0.5.0510.0153
Click here for support information.
To remove this program from your computer, click Remove.
Remove
WIDCOMM Bluetooth Software
Windows XP Service Pack 3

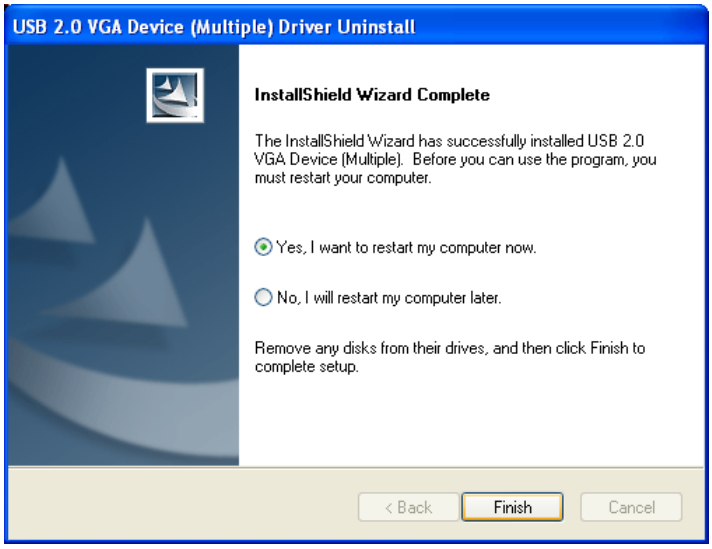
Step 2.

Unplug the USB 2.0 VGA Adapter and click "**OK**" to continue.


USB 2.0 VGA Device (Multiple) Confirm Uninstall
Do you want to completely remove the selected application and all of its features?
Please unplug your USB 2.0 VGA Device (Multiple) then click <OK>.
OK
Cancel

Step 3.

Select "**Yes, I want to restart my computer now**" and click "**Finish**" to reboot. After reboot, you will complete the driver un-installation.


USB 2.0 VGA Device (Multiple) Driver Uninstall
InstallShield Wizard Complete
The InstallShield Wizard has successfully installed USB 2.0 VGA Device (Multiple). Before you can use the program, you must restart your computer.
Yes, I want to restart my computer now.
No, I will restart my computer later.
Remove any disks from their drives, and then click Finish to complete setup.
< Back
Finish
Cancel

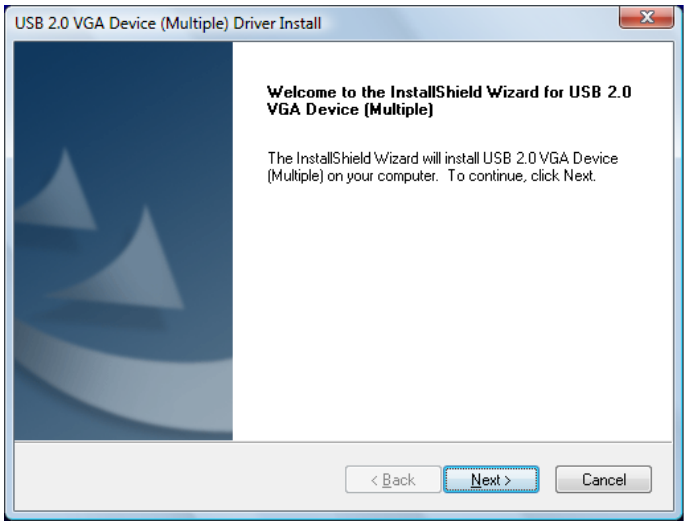
INSTALLATION ON WINDOWS VISTA

DEVICE DRIVER INSTALLATION

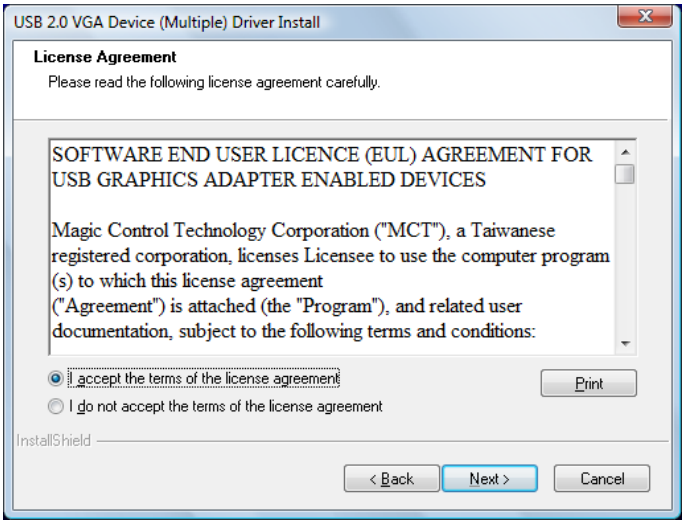
Installing the device driver enables your computer's operating system to recognize the adapter once it's connected. Please check your operating system and refer to the appropriate installation procedure to begin installing the device driver. Please make sure the USB 2.0 VGA Adapter is **unplugged** from your PC or Notebook before executing the setup program. This section illustrates the simple device driver installation procedure for computer running Windows Vista operating system.

Step 1.
Insert the Driver CD into the CD-ROM drive; the setup program should be launched automatically. If setup program does not begin automatically, click Start, Run and double click "**D:\Setup.exe**" (where D: is the path of your CD-ROM drive).

Step 2.
Driver Installation Wizard, click "**Next**" to continue.


USB 2.0 VGA Device (Multiple) Driver Install
Welcome to the InstallShield Wizard for USB 2.0 VGA Device (Multiple)
The InstallShield Wizard will install USB 2.0 VGA Device (Multiple) on your computer. To continue, click Next.
< Back
Next >
Cancel

Step 3.
License Agreement; please review it and check "**I accept the terms of the license agreement.**" Click "**Next**" to accept the License Agreement.


USB 2.0 VGA Device (Multiple) Driver Install
License Agreement
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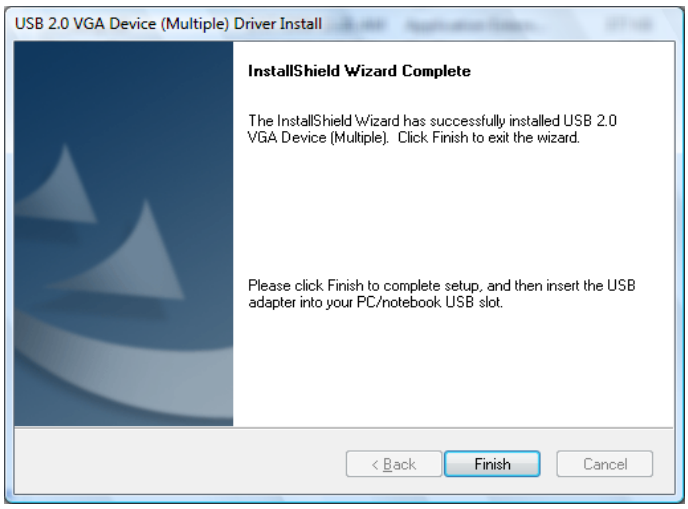
Magic Control Technology Corporation ("MCT"), a Taiwanese registered corporation, licenses Licensee to use the computer program (s) to which this license agreement ("Agreement") is attached (the "Program"), and related user documentation, subject to the following terms and conditions:
I accept the terms of the license agreement
I do not accept the terms of the license agreement
Print
InstallShield
< Back
Next >
Cancel

Step 4.
Setup is searching for installed features…

Step 5.
Click "**Finish**" to exit the Driver Wizard.


USB 2.0 VGA Device (Multiple) Driver Install
InstallShield Wizard Complete
The InstallShield Wizard has successfully installed USB 2.0 VGA Device (Multiple). Click Finish to exit the wizard.
Please click Finish to complete setup, and then insert the USB adapter into your PC/notebook USB slot.
< Back
Finish
Cancel

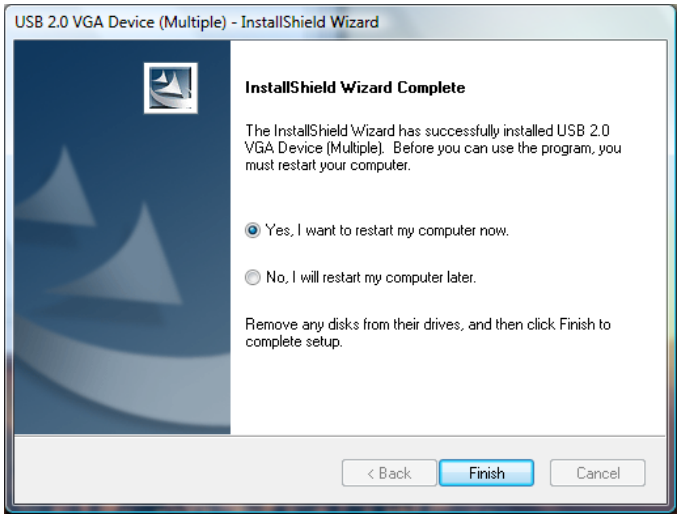
Step 6.
Connect the external display device (monitor/projector) to the VGA (DB15) connector of **USB 2.0 VGA Adapter** and switch it on.

Step 7.
Plug the **USB 2.0 VGA Adapter** into an available USB 2.0 port of your PC or Notebook. The driver installation will be proceeding automatically.

Step 8a.
INSTALLATION OF SINGLE USB 2.0 VGA ADAPTER

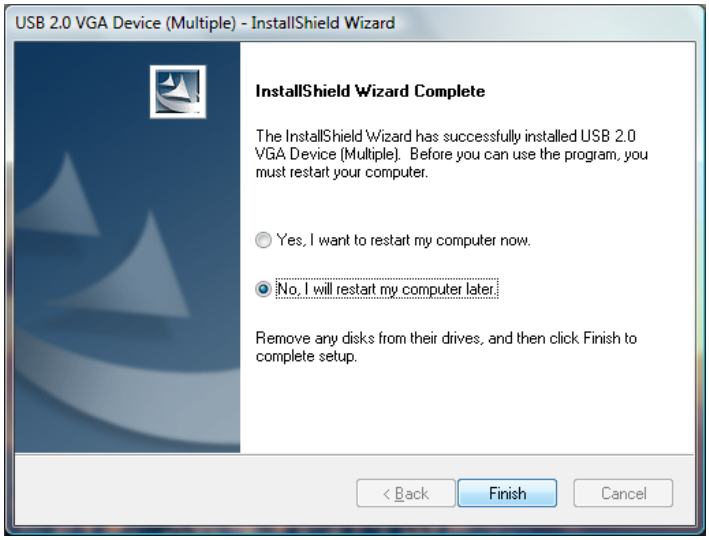
Please select "**Yes, I want to restart my computer now.**" and click "**Finish**" to complete the driver installation.

After reboot the computer, you would see the extend display on the 2nd display device.


USB 2.0 VGA Device (Multiple) - InstallShield Wizard
InstallShield Wizard Complete
The InstallShield Wizard has successfully installed USB 2.0 VGA Device (Multiple). Before you can use the program, you must restart your computer.
Yes, I want to restart my computer now.
No, I will restart my computer later.
Remove any disks from their drives, and then click Finish to complete setup.
< Back
Finish
Cancel

Step 8b.
INSTALLATION OF MULTIPLE USB 2.0 VGA ADAPTERS

a. Please select "**No, I will restart my computer later.**" And click "**Finish**" to continue the next installation.

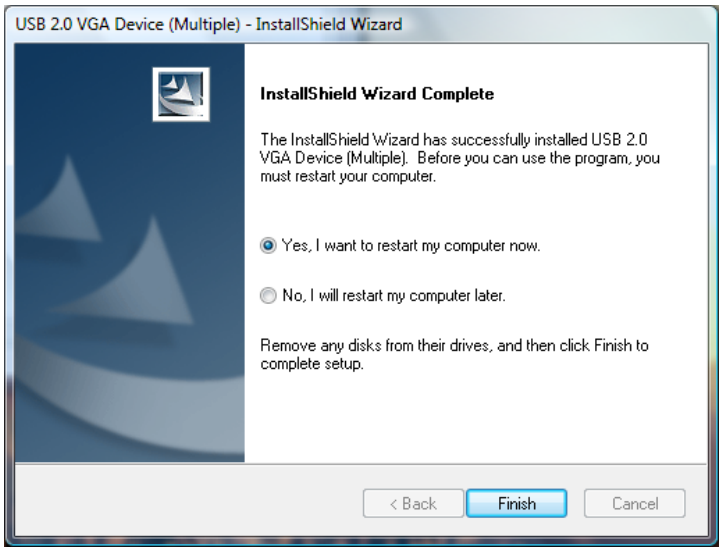

USB 2.0 VGA Device (Multiple) - InstallShield Wizard
InstallShield Wizard Complete
The InstallShield Wizard has successfully installed USB 2.0 VGA Device (Multiple). Before you can use the program, you must restart your computer.
Yes, I want to restart my computer now.
No, I will restart my computer later.
Remove any disks from their drives, and then click Finish to complete setup.
< Back
Finish
Cancel

b. Connect another external display device to the VGA (DB15) connector of next USB 2.0 VGA Adapter and switch it on.

c. Plug the USB 2.0 VGA Adapter into an available USB 2.0 port of your PC. The driver installation will be proceeding automatically.

d. If you wish to install additional USB 2.0 VGA Adapter, please follow the procedure **a~ c** again**.**

e. Otherwise, please select "**Yes, I want to restart my computer now.**" and click "**Finish**" to complete the driver installation.


USB 2.0 VGA Device (Multiple) - InstallShield Wizard
InstallShield Wizard Complete
The InstallShield Wizard has successfully installed USB 2.0 VGA Device (Multiple). Before you can use the program, you must restart your computer.
Yes, I want to restart my computer now.
No, I will restart my computer later.
Remove any disks from their drives, and then click Finish to complete setup.
< Back
Finish
Cancel

After reboot the computer, the extended display will be shown on the display devices.

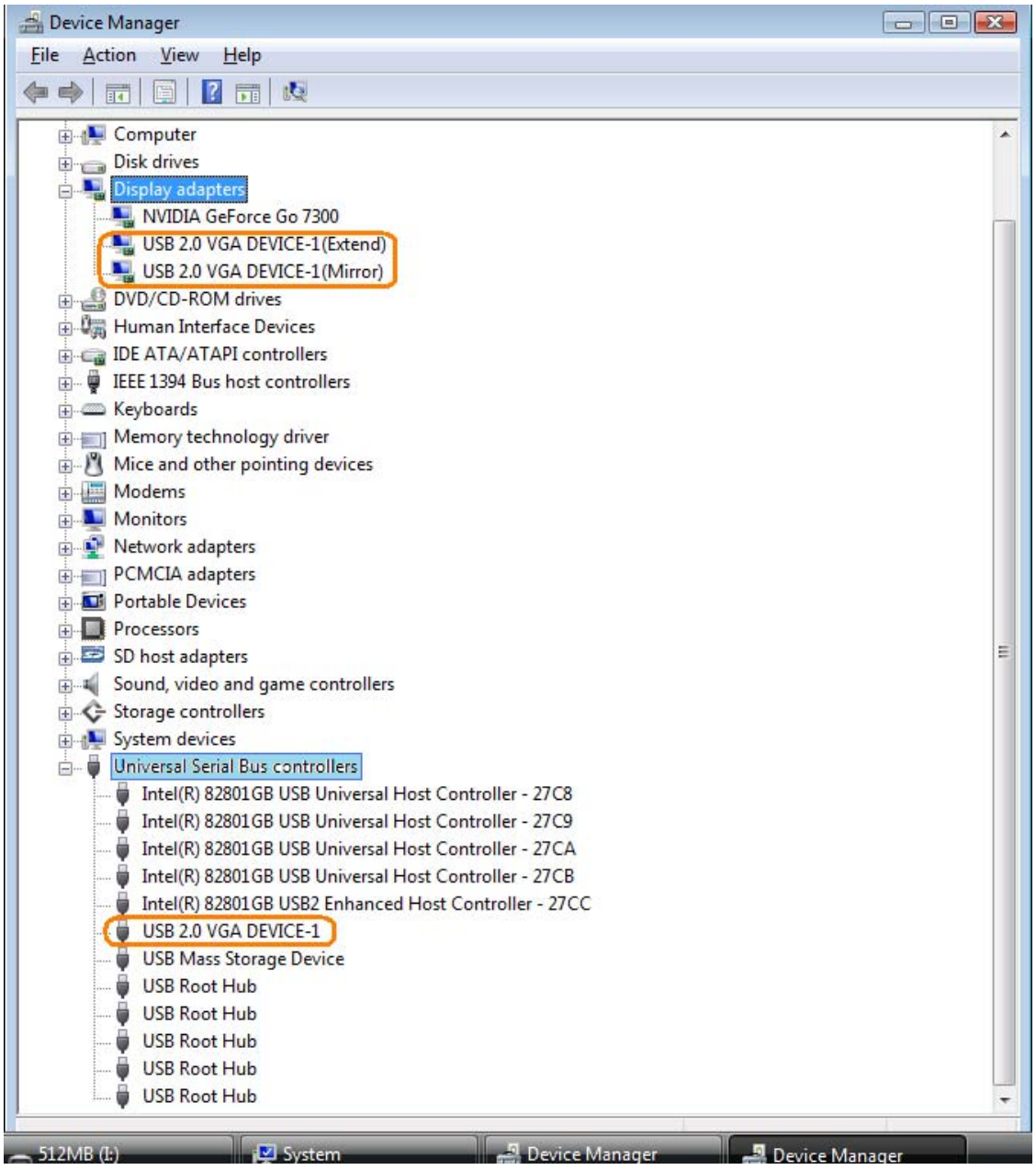
VERIFYING DEVICE DRIVER INSTALLATION

The following procedure allows you to verify the device driver installation.

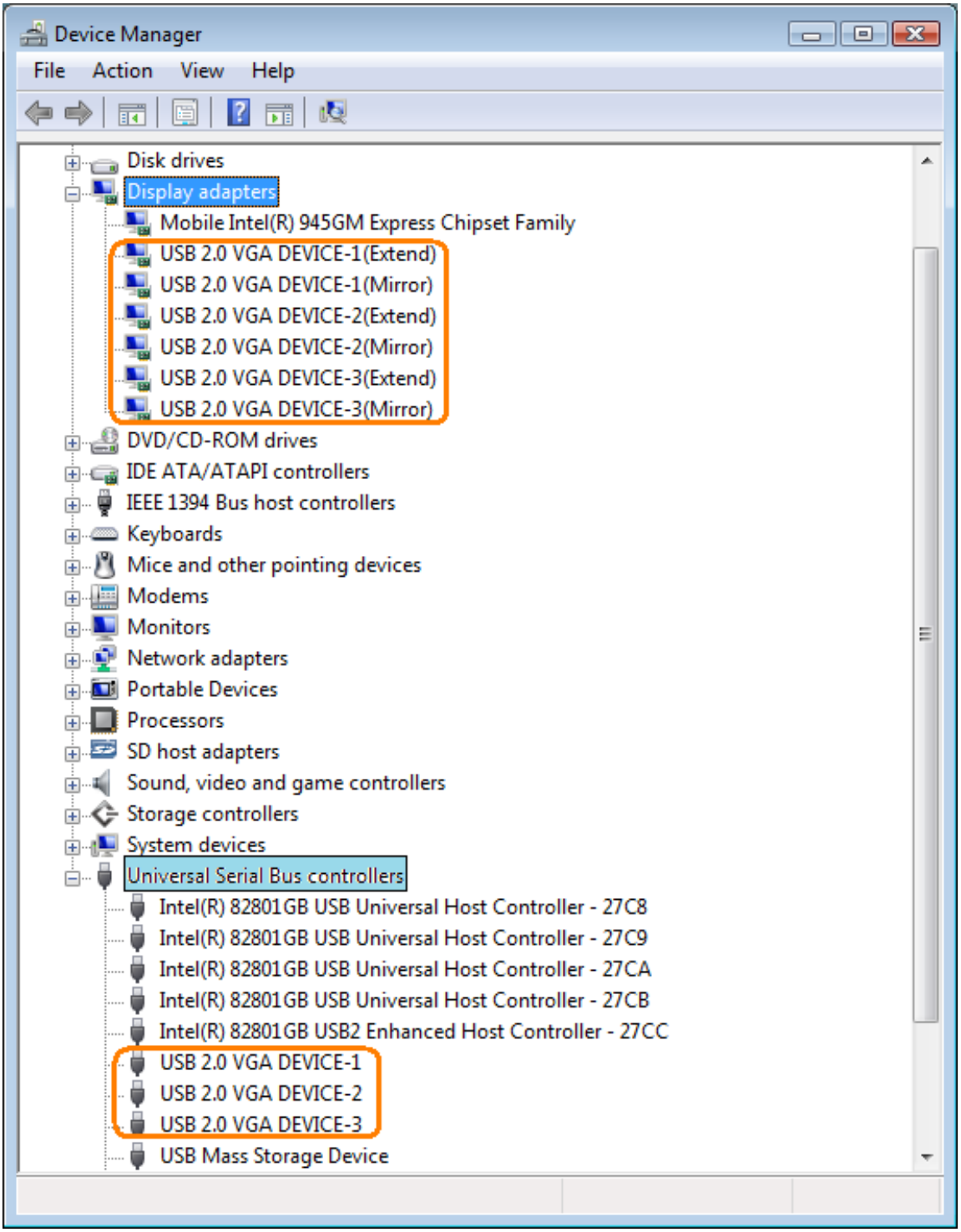
Please right click "**Computer**" → "**Properties**" → "**Device Manager**".

Plug-in the USB 2.0 VGA Adapter, then double click "**Display adapters**", and "**Universal Serial Bus controllers**". It will show the new directions as below,

※SINGLE USB 2.0 VGA ADAPTER INSTALLATION ON THE COMPUTER



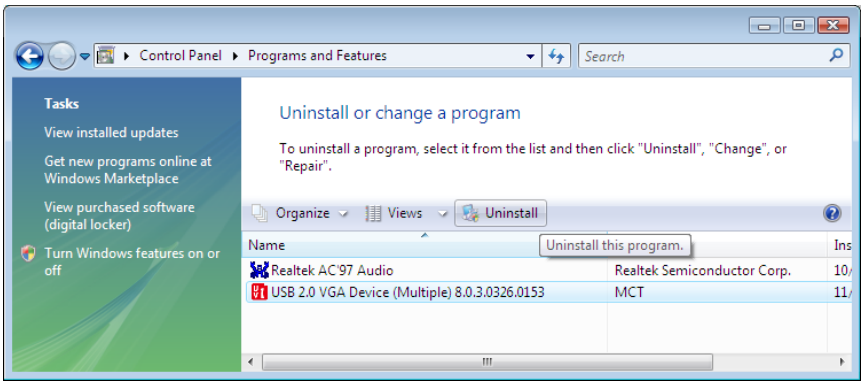
※MULTIPLE USB 2.0 VGA ADAPTERS INSTALLATION ON THE COMPUTER



DEVICE DRIVER UN-INSTALLATION

Step 1.

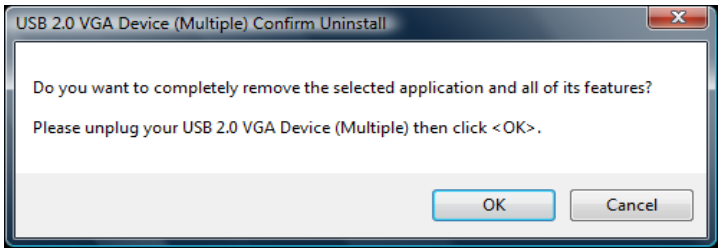
- **Start menu**:
  Please click "**Start**" → "**Control Panel**" → "**Program and Features**".
- **Classic Start menu:**
  Please click "**Start**" → "**Settings**" → "**Control Panel**" → "**Program and Features**".



Select "**USB 2.0 VGA Device (Multiple) (driver version number)**" item.
Click "**Uninstall**" button.

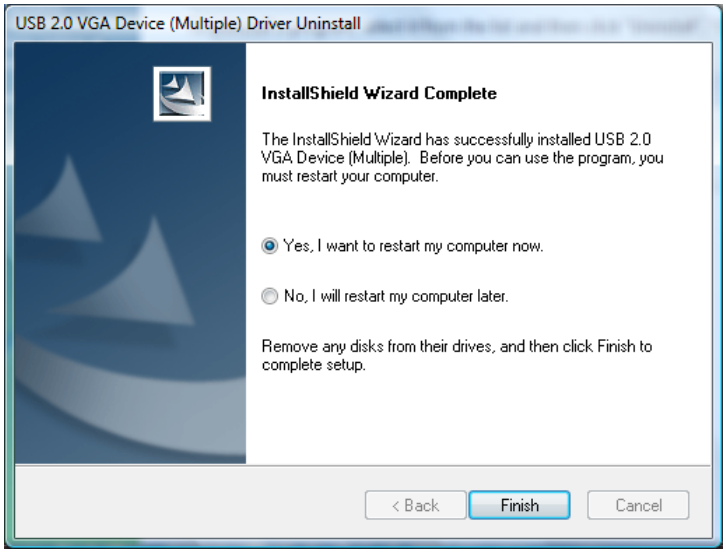
Step 2.

Unplug the USB 2.0 VGA Adapter and click "**OK**" to continue.


USB 2.0 VGA Device (Multiple) Confirm Uninstall
Do you want to completely remove the selected application and all of its features?
Please unplug your USB 2.0 VGA Device (Multiple) then click <OK>.
OK
Cancel

Step 3.

Select "**Yes, I want to restart my computer now**" and click "**Finish**" to reboot. After reboot, you will complete the driver un-installation.

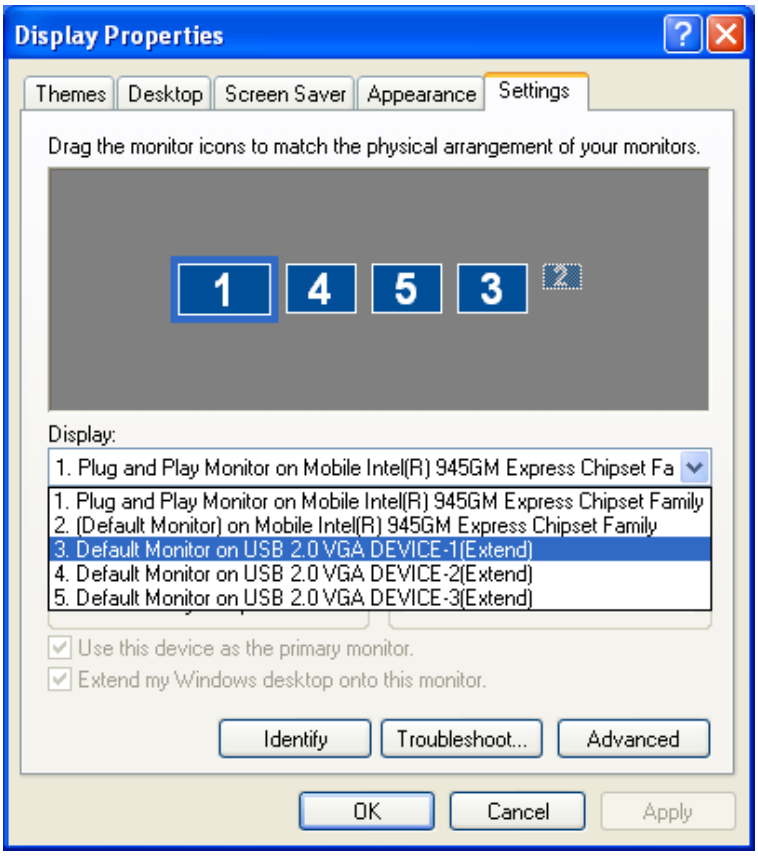

USB 2.0 VGA Device (Multiple) Driver Uninstall
InstallShield Wizard Complete
The InstallShield Wizard has successfully installed USB 2.0 VGA Device (Multiple). Before you can use the program, you must restart your computer.
Yes, I want to restart my computer now.
No, I will restart my computer later.
Remove any disks from their drives, and then click Finish to complete setup.
< Back
Finish
Cancel

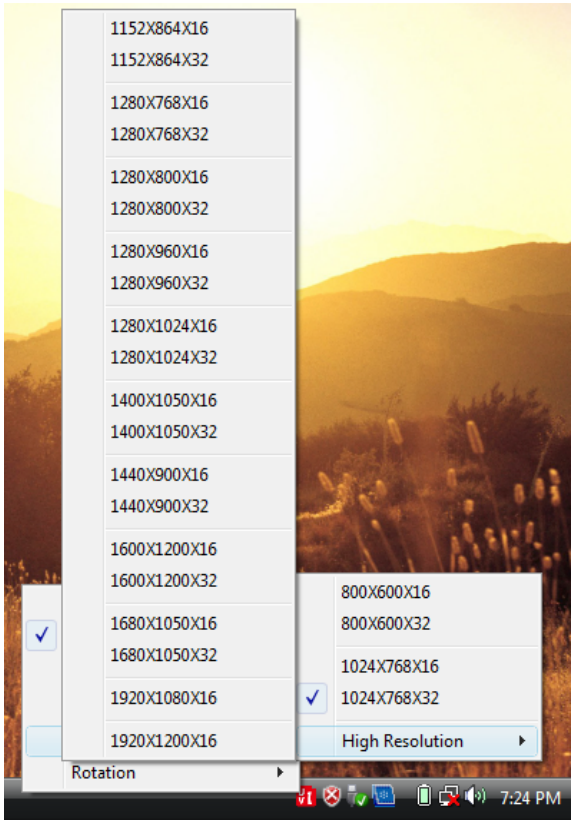
FUNCTION DESCRIPTION

This section describes the main functions provided by the USB 2.0 VGA Adapter.

- It can support the LCD or CRT monitor; it can attach the D-SUB interface LCD or CRT monitor and it supports four kinds of selections, Primary, Extended, Mirror and Rotation by "UV" icon.

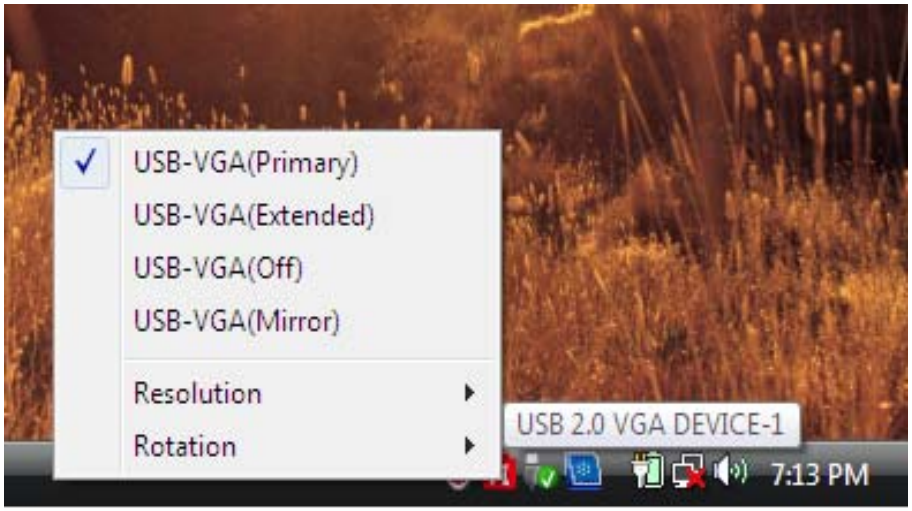
- The resolution supports from 800x600x16 bit and up-to 1920x1200x 16 bit.
- The resolution can be modified via the system tray or Display Properties.





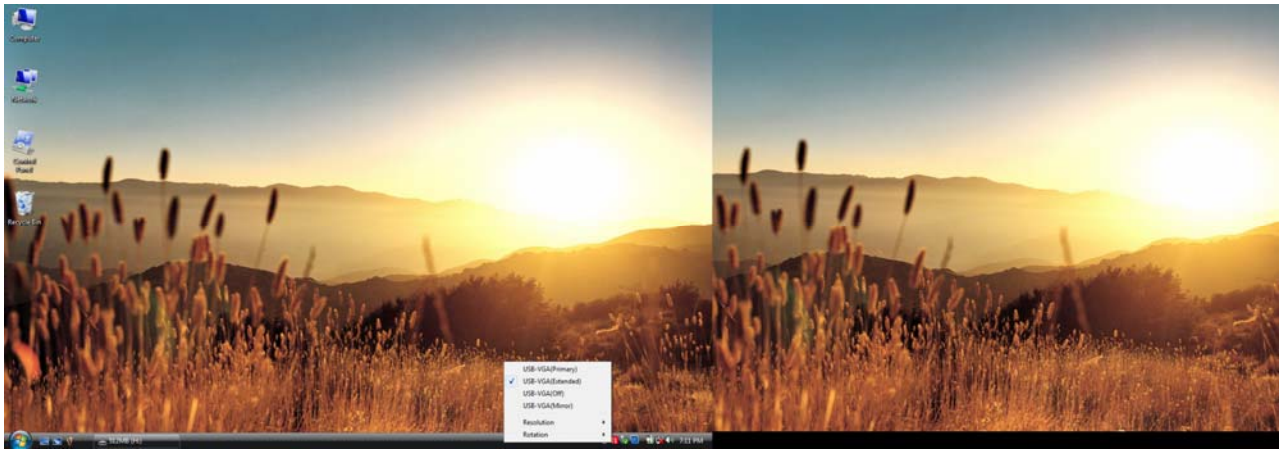
"Primary" Mode

The system's main graphics adapter will automatically switch to act as the secondary graphics adapter and the main screen will now work as the extended desktop. The monitor connected to the USB 2.0 VGA Adapter will now act as the primary Windows desktop. Please be advised that some display utility and drivers that shipped with certain AGP and built-in display adapters may prevent this option from working on some systems. You can disable the other utility program (usually found in the same toolbar located on the bottom right hand corner) to make this function work properly.



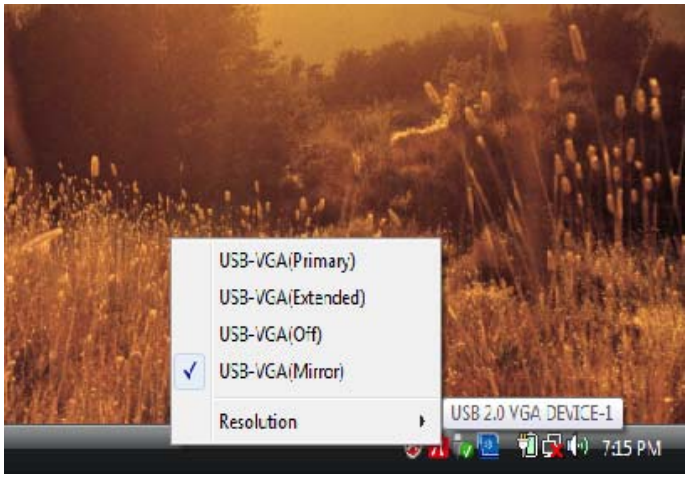
"Extended" Mode (Default)

By default, the monitor connected to USB 2.0 VGA Adapter will work as, "Extended Desktop" which extends the primary Windows desktop of your system. You can change the relative position of this extended desktop under the Display Properties.



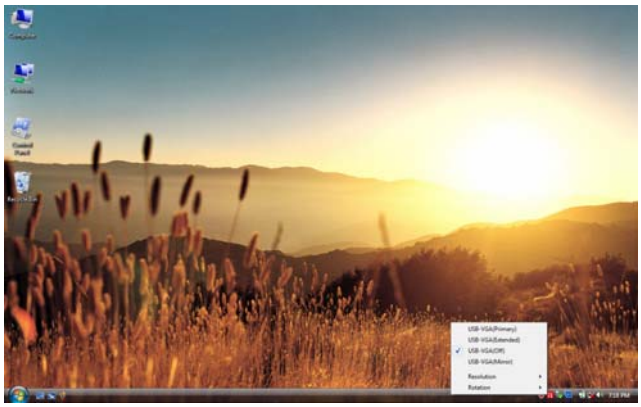
"Mirror" Mode

By setting this mode, the Windows desktop will be mirrored / replicated to the secondary CRT/LCD monitor. The screen resolution setting on the secondary monitor will follow the primary screen's resolution. For example, if the primary resolution is 1024x768x32bit, and the secondary monitor's resolution will be the same. But if the selected resolution setting is not supported by the primary screen, a warning dialogue box will be displayed and the suggested screen resolution will be shown.



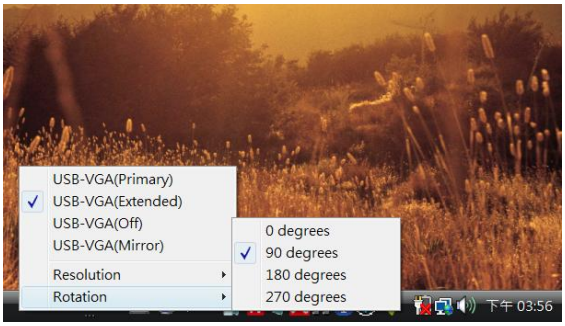
"OFF" Mode

This option disables the USB 2.0 VGA Adapter on the system.



"Rotation" Mode

This feature enables setting the orientation of the secondary CRT/LCD monitor. Several options such as "**0 degrees**", "**90 degrees**", "**180 degrees**" or **"270 degrees"** are available under the Extended or Primary mode.



SUPPORTED COMMON DISPLAY RESOLUTION:

Aspect Ratio	Resolution		
16:10	1920 * 1200	N/A	16
16:9	1920 * 1080	N/A	16
16:10	1680 * 1050	16	16, 32
16:10	1440 * 900	16 / 32	16, 32
16:10	1280 * 800	16, 32	16, 32
15:9	1280 * 768	16, 32	16, 32
5:4	1280 * 1024	16, 32	16, 32
4:3	1600 * 1200	16	16, 32
4:3	1400 * 1050	16, 32	16, 32
4:3	1280 * 960	16, 32	16,32
4:3	1152 * 864	16, 32	16,32
4:3	1024 * 768	16, 32	16,32
4:3	800 * 600	16, 32	16,32

TECHNICAL SPECIFICATIONS:

Operating System	Windows 2000/XP/Vista
PCB Version	USB 2.0 -VGA
USB 2.0 Cable	Length: 500±30 mm, (A type)
Super VGA connector	D-sub 15pin (female)
Case Material	ABS
Power Source	Bus Powered
Working Current	500mA
Suspend Current	≦ 500mA
Monitor Refresh Frequency	60, 70, 75 & 85 (Hz)

Q&A

This section describes the common Q&A regarding to the installation or operation of the USB 2.0 VGA Adapter.

Q: Why can't I make the USB 2.0 VGA Adapter the primary display?

A: Some video cards ship their product with a utility that prevent other video cards from being set as the primary card. Check the bottom right hand corner taskbar for the utility. Disable the utility before switching our adapter to be the primary display.

Q: Why won't my DVD player work when I move it over to the extended display?

A: Some DVD playback software packages do not support playing on a second display adapter of any kind. You may try to open the program in the secondary display first before playing the DVD.

Q: How come my video will not play on Media Player if I move it over to the extended desktop?

A: Check that you have moved the Media Player window completely over to the second screen.

Q: Why does my mouse not move pass the right side of the screen as it should on extended desktop?

A: Check the display settings and make sure that your display number '2' is on the right side of display number '1'. You can rearrange how Windows treats each display in relation to each other in the Display Properties Settings.

Q: There are lines running horizontally up and down my screen.

A: This is due to a low refresh rate setting. You can change this in the Display Properties Settings Advanced Monitor. Make sure you select the USB 2.0 VGA Device first and not set the refresh rate higher than what your monitor can support. This may damage your monitor. You can also try to reset/refresh/resynchronize your monitor.

Q: Direct 3D does not work?

A: This is a current limitation of the adapter. Please check for driver updates in the future to add support for this. If your application requires this, please use the main display adapter.

TROUBLESHOOTING TIPS

The following troubleshooting tips may help if you are experiencing any difficulties using our device. Contact your dealer for additional assistance if needed.

- Check to make sure that all connectors are plugged in correctly.
- Make sure that the USB port that you are using is USB 2.0.
- Try a different USB 2.0 port and/or computer
- Check to see that the monitor is connected correctly and the power is ON.
- Try connecting the adapter directly to the computer instead of through a hub.
- Unplug all other USB devices from the system.
- Make sure to restart your computer after the driver installation.
- Unplug the adapter and re-insert it.
- Check the website to make sure you have the latest drivers.
- Reset/refresh/resynchronize your monitor.
- For better performance on watching DVD on the secondary display, it is recommended to use the following license free software.

  Media Player Classic:

  http://sourceforge.net/projects/guliverkli/
- For better DVD movie file decoder complied with Windows Media Player, suggestion the following free software.

  K- Lite: http://www.free-codecs.com/download/K_Lite_Codec_Pack.htm
- Selecting Primary Mode may disable the main system display on certain Intel graphics solution based computer system.
- If you have problems during the boot up process, start your computer in Safe Mode and uninstall the driver. Hold the CTRL key until the Windows startup menu appears and select Safe Mode.
- To verify the driver version that you installed, please click “Control Panel” → “Add or Remove Programs” to check the program: USB 2.0 VGA Device (Multiple) 8.1.3.0827.0155 (the number means the driver version).

REGULATORY COMPLIANCE

FCC

This equipment has been tested and found to comply with Part 15 / Subpart B of the FCC rules. Operation is subject to the following two conditions:

• This device may not cause harmful interference

• This device must accept any interference received, including interference that may cause undesired operation.

CE

This equipment is in compliance with the requirements of the following regulations:
EN 55022: 1998+A1:2000+ A2:2003,
EN 55024: 1998+A1:2001+ A2:2003), (IEC/EN 61000-4-2 /-3)

C-Tick

This equipment is in compliance with the requirements of the following regulations:
EN 55022: 1998 + A1:2000+A2:2003, AS/NZS CISPR22 © IEC: 2005.

VCCI

This equipment is in compliance with the requirements of the following regulations:
V-3/2006.04, TECHNICAL REQUIREMENTS
V-4/2006.04, SUPPLEMENTARY TEST CONDITIONS FOR EQUIPMENT UNDER TEST

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